

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/716,063

Source: JFWO

Date Processed by STIC: 3/25/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

*Effective 12/13/03:* TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE SEE BELOW FOR ADDRESS.

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

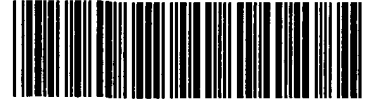
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses.

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

## RAW SEQUENCE LISTING

DATE: 03/25/2004

PATENT APPLICATION: US/10/716,063

TIME: 09:10:42

Input Set : A:\Seq.Lst

Output Set: N:\CRF4\03252004\J716063.raw

3 <110> APPLICANT: BRUCHEZ, Marcel P.  
 4 LAI, Jennifer  
 5 PHILLIPS, Vince  
 6 WATSON, Andrew R.  
 7 WONG, Edith  
 9 <120> TITLE OF INVENTION: LOOP PROBE HYBRIDIZATION ASSAY FOR POLYNUCLEOTIDE ANALYSIS  
 11 <130> FILE REFERENCE: 5100-0703.01  
 13 <140> CURRENT APPLICATION NUMBER: 10/716,063  
 14 <141> CURRENT FILING DATE: 2003-11-17  
 16 <150> PRIOR APPLICATION NUMBER: 09/815,510  
 17 <151> PRIOR FILING DATE: 2001-03-22  
 19 <150> PRIOR APPLICATION NUMBER: 60/191,227  
 20 <151> PRIOR FILING DATE: 2000-03-22  
 22 <150> PRIOR APPLICATION NUMBER: 60/237,000  
 23 <151> PRIOR FILING DATE: 2000-09-29  
 25 <160> NUMBER OF SEQ ID NOS: 24  
 27 <170> SOFTWARE: PatentIn version 3.2  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 25  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Artificial  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: mbD7S8A - give source of genetic material  
 38 <220> FEATURE: ON line 223?  
 39 <221> NAME/KEY: misc\_feature  
 40 <222> LOCATION: (23)..(23)  
 41 <223> OTHER INFORMATION: N = (biotin dT)  
 43 <400> SEQUENCE: 1  
 W--> 44 gcagcccttt cccggaatgc gcngc 25  
 47 <210> SEQ ID NO: 2  
 48 <211> LENGTH: 30  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Artificial  
 52 <220> FEATURE:  
 53 <223> OTHER INFORMATION: cmb D7S8A - same errn  
 55 <400> SEQUENCE: 2  
 56 tatgaccagc attccgggaa aggggaagaaa 30  
 59 <210> SEQ ID NO: 3  
 60 <211> LENGTH: 27  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: Artificial  
 64 <220> FEATURE:  
 65 <223> OTHER INFORMATION: mbWNT5A - same errn

pg. 6  
 Does Not Comply  
 Corrected Diskette Needed  
 (pg. 1-5)

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PATENT APPLICATION: US/10/716,063

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Input Set : A:\Seq.Lst

Output Set: N:\CRF4\03252004\J716063.raw

*Same errors*

68 <220> FEATURE:  
69 <221> NAME/KEY: misc\_feature  
70 <222> LOCATION: (25)..(25)  
71 <223> OTHER INFORMATION: N = (biotin dT)  
73 <400> SEQUENCE: 3

W--> 74 gcacgcacaa actggtccac gacgngc 27  
77 <210> SEQ ID NO: 4  
78 <211> LENGTH: 30  
79 <212> TYPE: DNA  
80 <213> ORGANISM: Artificial  
82 <220> FEATURE:  
83 <223> OTHER INFORMATION: cmbWNT5A  
85 <400> SEQUENCE: 4  
86 acggagatcg tggaccagtt tgtgtgcaag 30  
89 <210> SEQ ID NO: 5  
90 <211> LENGTH: 27  
91 <212> TYPE: DNA  
92 <213> ORGANISM: Artificial  
94 <220> FEATURE:  
95 <223> OTHER INFORMATION: mbG  
98 <220> FEATURE:  
99 <221> NAME/KEY: misc\_feature  
100 <222> LOCATION: (24)..(24)  
101 <223> OTHER INFORMATION: N = (biotin dT)  
103 <400> SEQUENCE: 5

W--> 104 gcgagccacc aaagatgata tgcncgc 27  
107 <210> SEQ ID NO: 6  
108 <211> LENGTH: 30  
109 <212> TYPE: DNA  
110 <213> ORGANISM: Artificial  
112 <220> FEATURE:  
113 <223> OTHER INFORMATION: cmbG  
115 <400> SEQUENCE: 6  
116 aaagaaaata tcatctttgg tgtttcctat 30  
119 <210> SEQ ID NO: 7  
120 <211> LENGTH: 27  
121 <212> TYPE: DNA  
122 <213> ORGANISM: Artificial  
124 <220> FEATURE:  
125 <223> OTHER INFORMATION: mbT  
128 <220> FEATURE:  
129 <221> NAME/KEY: misc\_feature  
130 <222> LOCATION: (24)..(24)  
131 <223> OTHER INFORMATION: N = (biotin dT)  
133 <400> SEQUENCE: 7

W--> 134 gcgagccacc aaatatgata tgcncgc 27  
137 <210> SEQ ID NO: 8  
138 <211> LENGTH: 30  
139 <212> TYPE: DNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004

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Input Set : A:\Seq.Lst

Output Set: N:\CRF4\03252004\J716063.raw

*Same error*

140 <213> ORGANISM: Artificial  
 142 <220> FEATURE:  
 143 <223> OTHER INFORMATION: cmbT  
 145 <400> SEQUENCE: 8  
 146 aaagaaaata tcatatttgg tgtttcctat 30  
 149 <210> SEQ ID NO: 9  
 150 <211> LENGTH: 25  
 151 <212> TYPE: DNA  
 152 <213> ORGANISM: Artificial  
 154 <220> FEATURE:  
 155 <223> OTHER INFORMATION: LDLr Loop A-5  
 157 <400> SEQUENCE: 9  
 158 cgagcatatg gtcctcttcc gctcg 25  
 161 <210> SEQ ID NO: 10  
 162 <211> LENGTH: 25  
 163 <212> TYPE: DNA  
 164 <213> ORGANISM: Artificial  
 166 <220> FEATURE:  
 167 <223> OTHER INFORMATION: LDLr Loop B-5  
 169 <400> SEQUENCE: 10  
 170 cgagcatatg gttctcttcc gctcg 25  
 173 <210> SEQ ID NO: 11  
 174 <211> LENGTH: 31  
 175 <212> TYPE: DNA  
 176 <213> ORGANISM: Artificial  
 178 <220> FEATURE:  
 179 <223> OTHER INFORMATION: LDLr test A  
 181 <400> SEQUENCE: 11  
 182 cccagtgtgg aagaggacca tatcctctgg g 31  
 185 <210> SEQ ID NO: 12  
 186 <211> LENGTH: 31  
 187 <212> TYPE: DNA  
 188 <213> ORGANISM: Artificial  
 190 <220> FEATURE:  
 191 <223> OTHER INFORMATION: LDLr test B  
 193 <400> SEQUENCE: 12  
 194 cccagtgtgg aagagaacca tatcctctgg g 31  
 197 <210> SEQ ID NO: 13  
 198 <211> LENGTH: 20  
 199 <212> TYPE: DNA  
 200 <213> ORGANISM: Artificial  
 202 <220> FEATURE:  
 203 <223> OTHER INFORMATION: LDLrsb  
 205 <400> SEQUENCE: 13  
 206 tcacaggttc cgatgtcaac 20  
 209 <210> SEQ ID NO: 14  
 210 <211> LENGTH: 19  
 211 <212> TYPE: DNA  
 212 <213> ORGANISM: Artificial

## RAW SEQUENCE LISTING

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Input Set : A:\Seq.Lst

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214 <220> FEATURE:  
 215 <223> OTHER INFORMATION: LDLrab  
 217 <400> SEQUENCE: 14  
 218 cagggtgggtc ctctcacac 19  
 221 <210> SEQ ID NO: 15  
 222 <211> LENGTH: 151  
 223 <212> TYPE: DNA  
 224 <213> ORGANISM: Artificial  
 226 <220> FEATURE:  
 227 <223> OTHER INFORMATION: Sequence spanning the D7S8 locus upper strand  
 230 <220> FEATURE:  
 231 <221> NAME/KEY: misc\_feature  
 232 <222> LOCATION: (50)..(50)  
 233 <223> OTHER INFORMATION: X: Location of SNP  
 234 X=C/G: Allele A  
 235 X=T/A: Allele B  
 237 <400> SEQUENCE: 15

W--> 238 ctagggatgt tctgtctca gggaccctga ccttattgct cccctttccn ggaatgctgg 60  
 240 tcttgacaca ataataaag ctctgagaag gcagccattt ttgtatgctt tactccaggc 120  
 242 tactttctcaa ctgcagaac agggcttggc a 151

245 <210> SEQ ID NO: 16  
 246 <211> LENGTH: 151  
 247 <212> TYPE: DNA  
 248 <213> ORGANISM: Artificial  
 250 <220> FEATURE:  
 251 <223> OTHER INFORMATION: Sequence spanning the D7S8 locus lower strand  
 254 <220> FEATURE:  
 255 <221> NAME/KEY: misc\_feature  
 256 <222> LOCATION: (102)..(102)  
 257 <223> OTHER INFORMATION: X: location of SNP  
 258 X=C/G: Allele A  
 259 X=T/A: Allele B  
 261 <400> SEQUENCE: 16

W--> 262 tgccaagccc tgttctgcca gttgagaagt agcctggagt aaagcataca aaaatggctg 60  
 264 ccttctcaga gottatatta ttgtgtcagg accagcattc cnggaaaggg gagcaataag 120  
 266 gtcagggtcc ctgagacagg aacatcccta g 151

269 <210> SEQ ID NO: 17  
 270 <211> LENGTH: 19  
 271 <212> TYPE: DNA  
 272 <213> ORGANISM: Artificial  
 274 <220> FEATURE:  
 275 <223> OTHER INFORMATION: 76bp fragment PCR forward primer  
 277 <400> SEQUENCE: 17  
 278 gggaccctga ccttattgc 19  
 281 <210> SEQ ID NO: 18  
 282 <211> LENGTH: 19  
 283 <212> TYPE: DNA  
 284 <213> ORGANISM: Artificial  
 286 <220> FEATURE:

please use "N" instead of "X".  
 please explain which nucleotide represents Allele A & B.

please use "N" instead of "X".  
 please explain which nucleotide represents Allele A & B.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004

TIME: 09:10:42

Input Set : A:\Seq.Lst

Output Set: N:\CRF4\03252004\J716063.raw

287 <223> OTHER INFORMATION: 76bp fragment PCR reverse primer  
289 <400> SEQUENCE: 18  
290 tggctgcctt ctcagagct 19  
293 <210> SEQ ID NO: 19  
294 <211> LENGTH: 21  
295 <212> TYPE: DNA  
296 <213> ORGANISM: Artificial  
298 <220> FEATURE:  
299 <223> OTHER INFORMATION: 151bp fragment PCR forward primer  
301 <400> SEQUENCE: 19  
302 ctagggatgt tcctgtctca g 21  
305 <210> SEQ ID NO: 20  
306 <211> LENGTH: 20  
307 <212> TYPE: DNA  
308 <213> ORGANISM: Artificial  
310 <220> FEATURE:  
311 <223> OTHER INFORMATION: 151bp fragment PCR reverse primer  
313 <400> SEQUENCE: 20  
314 tgccaagccc tgttctgcga 20  
317 <210> SEQ ID NO: 21  
318 <211> LENGTH: 25  
319 <212> TYPE: DNA  
320 <213> ORGANISM: Artificial  
322 <220> FEATURE:  
323 <223> OTHER INFORMATION: mbD7S8B - SAME ERRR  
326 <220> FEATURE:  
327 <221> NAME/KEY: misc\_feature  
328 <222> LOCATION: (23)..(23)  
329 <223> OTHER INFORMATION: N = (biotin dT)  
331 <400> SEQUENCE: 21  
W--> 332 gcagcccttt cctggaatgc gcngc 25  
335 <210> SEQ ID NO: 22  
336 <211> LENGTH: 30  
337 <212> TYPE: DNA  
338 <213> ORGANISM: Artificial  
340 <220> FEATURE:  
341 <223> OTHER INFORMATION: Complementary D7S8B - SAME ERRR  
343 <400> SEQUENCE: 22  
344 tatgaccagc attccaggaa agggaagaaa 30  
347 <210> SEQ ID NO: 23  
348 <211> LENGTH: 24  
349 <212> TYPE: DNA  
350 <213> ORGANISM: Artificial  
352 <220> FEATURE:  
353 <223> OTHER INFORMATION: AminoD7S8A - SAME ERRR  
355 <400> SEQUENCE: 23  
356 ttttttacca gcattccggg aaag 24  
359 <210> SEQ ID NO: 24  
360 <211> LENGTH: 24

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/716,063

DATE: 03/25/2004  
TIME: 09:10:43

Input Set : A:\Seq.Lst  
Output Set: N:\CRF4\03252004\J716063.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 23  
Seq#:3; N Pos. 25  
Seq#:5; N Pos. 24  
Seq#:7; N Pos. 24  
Seq#:15; N Pos. 50  
Seq#:16; N Pos. 102  
Seq#:21; N Pos. 23

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24

**VERIFICATION SUMMARY**

DATE: 03/25/2004

PATENT APPLICATION: US/10/716,063

TIME: 09:10:43

Input Set : A:\Seq.Lst

Output Set: N:\CRF4\03252004\J716063.raw

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0